

*** User ID: d26fmew
*** User Name: MARK E. WALLERSON
*** User Phone: 0003058581
*** Workstation Id: WSHBUEUC
*** Printer Id: wemtptr
*** Date: Tue Feb 3 1998
*** Time: 14:47:34
*** Job # 0212

=> s bidirection## or bi(2a)direction##
23190 BIDIRECTION##

```
      50994 BI
      109088 BIS
      155621 BI
          (BI OR BIS)
1065487 DIRECTION##
  13527 BI(2A)DIRECTION##
L1      33980 BIDIRECTION## OR BI(2A)DIRECTION##

=> s print###(3a)status
      230419 PRINT###
      70087 STATUS
      1751 STATUSES
      70335 STATUS
          (STATUS OR STATUSES)
L2      12116 PRINT###(3A)STATUS

=> s scan###(3a)status
      121116 SCAN###
      70087 STATUS
      1751 STATUSES
      70335 STATUS
          (STATUS OR STATUSES)
L3      716 SCAN###(3A)STATUS

=> d his

      (FILE 'USPAT' ENTERED AT 14:42:18 ON 03 FEB 1998)
      SET PAGE SCROLL
L1      33980 S BIDIRECTION## OR BI(2A)DIRECTION##
L2      12116 S PRINT###(3A)STATUS
L3      716 S SCAN###(3A)STATUS

=> s l1 and l2 and l3
L4      14 L1 AND L2 AND L3

=> d 14 1-14

1. 5,564,117, Oct. 8, 1996, Computer system including a page printer
controller including a single chip superscalar microprocessor with graphical
functional units; Derek J. Lentz, et al., 345/502; 395/101, 110 [IMAGE
AVAILABLE]

2. 5,559,951, Sep. 24, 1996, Page printer controller including a single chip
superscalar microprocessor with graphics functional units; Derek J. Lentz, et
al., 345/502; 395/101, 115 [IMAGE AVAILABLE]

3. 5,532,844, Jul. 2, 1996, Image data transferring system and method;
Yuichi Kagami, et al., 358/468, 442, 444; 364/238.2, 238.3, DIG.1; 395/821
[IMAGE AVAILABLE]

4. 5,394,515, Feb. 28, 1995, Page printer controller including a single chip
superscalar microprocessor with graphics functional units; Derek J. Lentz, et
al., 395/115; 345/502 [IMAGE AVAILABLE]

5. 4,977,529, Dec. 11, 1990, Training simulator for a nuclear power plant;
Gerald L. Gregg, et al., 364/578, 492; 376/245, 463 [IMAGE AVAILABLE]

6. 4,922,347, May 1, 1990, Apparatus for recording displayed video data;
Louis V. Galetto, et al., 358/296, 409; 386/121 [IMAGE AVAILABLE]
```

7. 4,736,255, Apr. 5, 1988, Recording apparatus; Kunihiko Miura, et al., 358/300; 347/140; 902/21 [IMAGE AVAILABLE]

8. 4,729,038, Mar. 1, 1988, Recording apparatus capable of forming a shadow print impression to characters; Kunihiko Miura, et al., 358/300; 347/247; 358/298, 443; 400/120.07 [IMAGE AVAILABLE]

9. 4,707,715, Nov. 17, 1987, Printing apparatus; Kunihiko Miura, 347/129, 139; 358/296; 399/151; 902/18 [IMAGE AVAILABLE]

10. 4,649,403, Mar. 10, 1987, Recording apparatus; Kunihiko Miura, 347/139, 346/145 [IMAGE AVAILABLE]

11. 4,647,950, Mar. 3, 1987, Recording apparatus; Takefumi Nosaki, et al., 347/246, 253; 355/69 [IMAGE AVAILABLE]

12. 4,463,417, Jul. 31, 1984, Modular, processor-controlled document distribution terminal; Kenneth A. Bushaw, et al., 358/442; 364/222.2, 222.3, 222.5, 228.3, 230, 230.4, 231.4, 231.5, 231.8, 232.7, 232.8, 232.9, 234, 235, 236.3, 237, 237.6, 238.3, 238.5, 242.6, 242.7, 247, 247.2, 247.8, 248.2, 260.4, 260.6, 260.81, 260.9, 263, 284, 284.3, DIG.1; 379/100.02; 380/4 [IMAGE AVAILABLE]

13. 4,454,575, Jun. 12, 1984, Shared memory system with access by specialized peripherals managed by controller initialized by supervisory CPU; Kenneth A. Bushaw, et al., 345/433; 358/403, 468; 364/222.2, 222.3, 222.5, 228.4, 231.4, 231.5, 231.6, 231.7, 232.9, 235, 237.82, 238, 238.3, 238.4, 238.5, 240.5, 240.9, 241.2, 241.3, 241.9, 242.3, 242.31, 242.6, 242.7, 242.91, 242.94, 242.96, 254, 254.3, 259, 259.9, 260, 260.1, 260.4, 260.6, 260.81, 260.9, 263, 264, 264.1, 264.6, 280, 280.7, 281.3, 281.7, 284, 284.1, 286, 286.4, DIG.1; 380/18, 25, 49, 50; 395/878 [IMAGE AVAILABLE]

14. 4,141,078, Feb. 20, 1979, Library circulation control system; Louis E. Bridges, Jr., et al., 235/375, 380, 385; 340/572; 364/918, 918.7, 919.4, 920, 920.6, 926.8, 927.2, 928, 930, 930.7, 931, 931.4, 932, 932.1, 932.5, 932.6, 940, 942, 947, 947.2, 948.2, 952, 952.1, 952.4, 952.5, 952.6, 965, 965.5, DIG.2; 705/30 [IMAGE AVAILABLE]

=> d his

(FILE 'USPAT' ENTERED AT 14:42:18 ON 03 FEB 1998)
SET PAGE SCROLL

L1 33980 S BIDIRECTION## OR BI(2A)DIRECTION##
L2 1216 S PRINT##(3A)STATUS
L3 716 S SCAN##(3A)STATUS
L4 14 S L1 AND L2 AND L3

=> s l4 and (computer or pc or (personal computer) or (workstation or work(2a)s tation))

191843 COMPUTER
47749 COMPUTERS
203921 COMPUTER
(COMPUTER OR COMPUTERS)
29697 PC
2635 PCS
31121 PC
(PC OR PCS)
44092 PERSONAL
18 PERSONALS
44097 PERSONAL

(PERSONAL OR PERSONALS)

191843 COMPUTER

47749 COMPUTERS

203921 COMPUTER

(COMPUTER OR COMPUTERS)

21438 PERSONAL COMPUTER

(PERSONAL (W) COMPUTER)

6987 WORKSTATION

3875 WORKSTATIONS

8451 WORKSTATION

(WORKSTATION OR WORKSTATIONS)

315485 WORK

74829 WORKS

361799 WORK

(WORK OR WORKS)

141778 STATION

71160 STATIONS

157743 STATION

(STATION OR STATIONS)

14206 WORK(2A)STATION

L5 13 L4 AND (COMPUTER OR PC OR (PERSONAL COMPUTER) OR (WORKSTATION
OR WORK(2A)STATION))

=>